

Semester-Wise Programme structure for B.Sc. IT [3 year]						
Sr. No.	Year 1		Year 2		Year 3	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6
1	Basics of Mathematics [CU: 4, L-4] {AC}	Fundamentals of Mathematical statistics [CU: 4, L-4] {AC}	Computer Networks [CU:4, L-3, P-1] {CC}	Software Engineering [CU:4, L-3, P-1] {CC}	Introduction to Cloud Computing [CU:4, L-3, P-1] {CC}	Data Warehousing and data Mining [CU:4, L-4] {CC}
2	Basics of Computers and IT [CU: 5, L-3, P-2] {CC}	Object Oriented Programming using C++ [CU:5, L-3, P-2] {CC}	Database Management System [CU:5, L-3, P-2] {CC}	Operating Systems [CU:4, L-3, P-1] {CC}	Digital marketing [CU:2, P-2] {SEC}	Enterprise Resource Planning [CU:3, L-3] {CC}
3	Problem Solving in C-I [CU:5, L-3, P-2] {CC}	Data Structure [CU:5, L-3, P-2] {CC}	Programming with Python [CU:5, L-3, P-2] {CC}	Introduction to Data Science [CU:4, L-3, P-1] {CC}	Multimedia and its applications [CU:4, L-3, P-1] {CC}	Cryptography and Network Security [CU:4, L-3, P-1] {CC}
4	Basics of Physics [CU:4, L-3, P-1] {BSC}	Web Development (Scripting Languages) [CU:4, L-3, P-1] {SC}	Computer Architecture [CU:4, L-4] {CC}	Java Programming [CU:5, L-3, P-2] {CC}	Internet Of Things [CU:4, L-3, P-1] {CC}	Advanced Web Programming [CU:2, P-2] {SEC}

5	Understanding Self for Effectiveness (PSY101) [CU:1, L-1] {VAC}	Individual, Society and Nation (PSY106) [CU:1, L-1] {VAC}	Introduction to Entrepreneurship [CU:3, L-3] {HUC}	Domain Elective-I [CU:4, L-4] {DE}	Domain Elective-II [CU:4, L-3, P-1] {DE}	Domain Elective-III [CU:4, L-3, P-1] {DE}
6	Communication Skills-I (ENG101) [CU:1, L-1] {VAC}	Communication Skills-II (ENG103) [CU:1, L-1] {VAC}	Fundamentals of E-Commerce [CU:2, L-2] {HUC}	Fundamentals of AI and ML [CU:4, L-3, P-1] {CC}	Open Elective-I [CU:3, L-3] {OE}	Open Elective-II [CU:3, L-3] {OE}
7	Introduction to French Culture & Language (FOL101)/ Introduction to German Culture & Language (FOL102) [CU:1, L-1] {VAC}	Introduction to French Culture & Language (FOL101)/ Introduction to German Culture & Language (FOL102) [CU:1, L-1] {VAC}	IT Workshop [CU:1, P-1] {SEC}		Industrial Training/Internship [CU:3] {NTCC}	Minor Project [CU:4] {NTCC}
8	Environmental Studies (ENV101) [CU:2, L-2] {AEC}	Environmental Studies (ENV101) [CU:2, L-2] {AEC}				

9	Punjabi Language and Literature - 1(INL-107)/History & Culture of Punjab for B.Sc. (INL-103) [CU:1, L-1] {AEC}	Punjabi Language & Literature -2 (INL-108)/History & Culture of Punjab for B.Sc.-II (INL-106) [CU:1, L-1] {AEC}				
Credits	24	24	24	25	24	24
Total Programme Credits						145

AC	Allied Course
AEC	Ability Enhancement Course
CC	Core Course
GE	General Elective
OE	Open Elective
SC	Skill component
SE	Specialization Elective Course
SEC	Skill Enhancement Course
MOOC	Massive Open Online Course
NTCC	Non Teaching Credit Course
VAC	Value Added Course

Semester-Wise Programme structure for B.Sc. IT [4 year]

Sr. No.	Year 1		Year 2		Year 3		Year 4	
	Semester 1	Semester 2	Semester 3	Semester 4	Semester 5	Semester 6	Semester 7	Semester 8

1	Basics of Mathematics [CU: 4, L-4] {AC}	Fundamentals of Mathematical statistics [CU: 4, L-4] {AC}	Computer Networks [CU:4, L-3, P-1] {CC}	Software Engineering [CU:4, L-3, P-1] {CC}	Introduction to Cloud Computing [CU:4, L-3, P-1] {CC}	Data Warehousing and data Mining [CU:4, L-4] {CC}	Linux Administration and Program [CU:4, L-3, P-1] {CC}	Advanced Python Programming [CU:4, L-3, P-1] {CC}
2	Basics of Computers and IT [CU: 5, L-3, P-2] {CC}	Object Oriented Programming using C++ [CU:5, L-3, P-2] {CC}	Database Management System [CU:5, L-3, P-2] {CC}	Operating Systems [CU:4, L-3, P-1] {CC}	Digital marketing [CU:2, P-2] {SEC}	Enterprise Resource Planning [CU:3, L-3] {CC}	Agile Software Development [CU:4, L-3, P-1] {CC}	Blockchain technologies [CU:4, L-3, P-1] {CC}
3	Problem Solving in C-I [CU:5, L-3, P-2] {CC}	Data Structure [CU:5, L-3, P-2] {CC}	Programming with Python [CU:5, L-3, P-2] {CC}	Introduction to Data Science [CU:4, L-3, P-1] {CC}	Multimedia and its applications [CU:4, L-3, P-1] {CC}	Cryptography and Network Security [CU:4, L-3, P-1] {CC}	Research Methodology [CU: 4, L-4] {CC}	Soft Computing [CU:4, L-3, P-1] {CC}

4	Basic Physics [CU:4, L-3, P-1] {BSC}	Web Development (Scripting Languages) [CU:4, L-3, P-1] {SC}	Computer Architecture [CU:4, L-4] {CC}	Java Programming [CU:5, L-3, P-2] {CC}	Internet Of Things [CU:4, L-3, P-1] {CC}	Advanced Web Programming [CU:2, P-2] {SEC}	Domain Elective-IV [CU:4, L-3, P-1] {DE}	Information Retrieval [CU:4, L-4] {CC}
5	Understanding Self for Effectiveness (PSY101) [CU:1, L-1] {VAC}	Individual, Society and Nation (PSY106) [CU:1, L-1] {VAC}	Introduction to Entrepreneurship [CU:3, L-3] {HUC}	Domain Elective-I [CU:4, L-4] {DE}	Domain Elective-II [CU:4, L-3, P-1] {DE}	Domain Elective-III [CU:4, L-3, P-1] {DE}	Advanced Java Programming [CU:4, L-3, P-1] {CC}	Research Project- II [CU:8] {NTCC}
6	Communication Skills-I (ENG101) [CU:1, L-1] {VAC}	Communication Skills-II (ENG103) [CU:1, L-1] {VAC}	Fundamentals of E-Commerce [CU:2, L-2] {HUC}	Fundamentals of AI and ML [CU:4, L-3, P-1] {CC}	Open Elective-I [CU:3, L-3] {OE}	Open Elective-II [CU:3, L-3] {OE}	Research Project- I [CU:4] {NTCC}	

7	Introduction to French Culture & Language (FOL101)/ Introduction to German Culture & Language (FOL102) [CU:1, L-1] {VAC}	Introduction to French Culture & Language (FOL101)/ Introduction to German Culture & Language (FOL102) [CU:1, L-1] {VAC}	IT Workshop [CU:1, P-1] {SEC}		Industrial Training/Internship [CU:3] {NTCC}	Minor Project [CU:4] {NTCC}		
8	Environmental Studies (ENV101) [CU:2, L-2] {AEC}	Environmental Studies (ENV101) [CU:2, L-2] {AEC}						
9	Punjabi Language and Literature - 1 (INL-107)/History & Culture of Punjab for B.Sc. (INL-103) [CU:1, L-1] {AEC}	Punjabi Language & Literature - 2 (INL-108)/History & Culture of Punjab for B.Sc.-II (INL-106) [CU:1, L-1] {AEC}						
Credits	24	24	24	25	24	24	24	24
Total Programme Credits								193

AC	Allied Course
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AEC	Ability Enhancement Course
CC	Core Course
GE	General Elective
OE	Open Elective
SC	Skill component
SE	Specialization Elective Course
SEC	Skill Enhancement Course
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